

ACF

2023/03/24

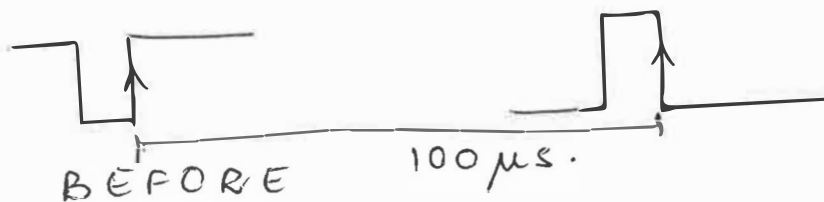
- Ar + H₂ plasma
- Puffing

$$ST = 1.5$$

X-Ray Computer 10:47 am,
Oscilloscope 10:49:44 am

→ Seed Plasma ON - Mag P = 201 A, NOZZLE = 101 A.
PF = 1.123, Pressure = 0.437 mTorr,
PR = 104 mV

— Trigger Oscilloscope



} due to this
not able to
Gate the SDA
correctly

→ RMF power is 25 kW

— RMF power being raised — to 34 kW

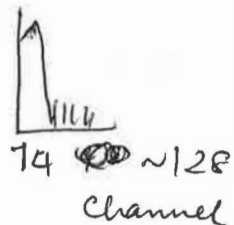
— There were X-ray's seen when gated

11:32 pm

The Helicon was reduced to 43 W

$$PF = 691 \text{ mV}, PR = 190 \text{ mV}$$

— RMF — 34 kW — Not Much X-rays
seen



we are
looking at Oscilloscope it seems ~~the~~ gated
for 5 ~~ms~~ + 0.005 ms.

11:39 The RMF power was at 62 kW.

↳ " " is at 74 kW.

65 cps.

The ~~RM~~

11:47 — RMF power — 80 kW —

— 03



(~269 eV)

60
+ 91

04 — No gating of RMF power = 80 kW.

05 — Gated and seems there is P-P V with Ap 2.

06 — Gated

It seems Sam was changing mag. fields during the run.

07 — Changed the ~~CC Mid~~ Aperture 1.
— CC Midpoint

$$CR = 3431.9$$

$$\text{Total } C = 6555$$

$$\text{Acc } t = 1.91$$

$$M.P = 254A$$

#16 \Rightarrow 118 eV



15 33 \hookrightarrow ~269 eV

2023/03/24

(3)

The Mag. fld changed to 300A,

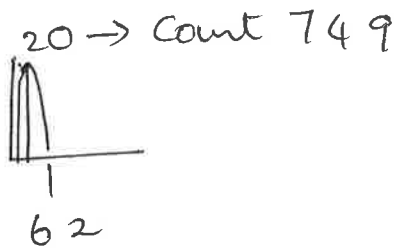
Nozzle = 100A.

The pressure = 0.61 μ torr.

(Did not

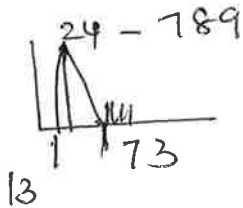
- ~~Based on the de~~ CR \sim 10 cps -

08 — CC Midpoint Ap 1 — 0.280 μ torr. (Before 12:43pm)



$$\frac{11,676}{0.52}$$

09 — CC Midpoint Ap 1 — 0.28 μ torr



$$\frac{17,506}{0.69}$$

The Helicon power was increased.

This was done to check if the X-ray's are due to

RMF or Helicon.

— This indicated it's due to Helicon.

